ATKINSON ANWR 1999 LISBURNE SAMPLES

All samples collected were spot samples. Age and formation calls are based on biostratigraphy of the Lisburne Group in the Arctic National Wildlife Refuge as described in Krumhardt and others (1996). This report is not to be quoted or paraphrased in publication without a final check by Krumhardt.

quoted or paraphrase	quoted or paraphrased in publication without a final check by Krumhardt.	CK by Krumhardt.	AGE/FORMATION	BIOFACIES	CAI	REMARKS
	POSITION & LOCATION					
99PKA010F	Collected as upper Wahoo? Straight Creek Isocline	2 Pa elements <i>Rhachistogathus minutus</i> subsp. indet.	Pennsylvanian: Morrowan to early	Indeterminate (too few conodonts): probably normal	6	5.2 kg of rock processed, 160 g of 20-140 mesh residue. Heavy-mineral concentrate:
	NW 1/4	1 Pa juvenile element <i>Rhachistognathus</i> sp. indet. 1 Pa element <i>Rhachistognathus?</i>	Atokan, (lower minutus fauna to	marine, shallow, high energy open-marine near shoal depositional environment	1	abundant dolomite, weathered pyrite and minor phosphatized bloclasts. Other picked: 7 castropod steinkerns. Elements have sucrosic
		6 indet. bar, blade, and platform elements	fauna), upper Wahoo Lms.	арознова енивоннета		texture and healed fractures.
99PKA010G	Collected as upper Alapah? Straight Creek Isocline 69 19 59-145 30 13	4 Pa cavusgnathid fragments	Mississippian (late Merimecian to Chesterian),	Indeterminate (too few conodonts)	6	5.8 kg of rock processed. 15 g of 20-140 mesh residue. Heavy-mineral concentrate: abundant dolomite, weathered pyrite and
	T. 1S, R. 27E sec. 25, NW 1/4	. 1850 m. 1870 1870	Pennsylvanian to Lower Permian, upper Alapah Lms? (based on field call)			minor phosphatized bloclasts. Elements have sucrosic texture.
99PKA012A	Collected as upper Alapah? North Shublik Mountains	1 Pa element Adetognathus lautus (Gunnell)? 6 Pa elements (4 juvenile) Cavusgnathus unicornis	Late Mississippian (Upper muricatus	Open-platform to open-marine, relatively shallow-water	5.5 to 6	5.8 kg of rock processed. 5 g of 20-140 mesh residue. Heavy-mineral concentrate: well-
	69 30 27-145 35 04 T. 2N, R.27E sec. 19, SE 1/4	Youngquist and Miller Year Cavusgnathid fragments Pa cavusgnathid fragments Pa elements Gnathodus girtyi girtyi Hass 2 Sc elements Kladognathus sp. indet.	Chesterian), upper Alapah Lms. or lower Wahoo Lms.	depositional environment.		phosphatized bioclasts. Elements have sucrosic texture.
	~	UNASSIGNED ELEMENTS: 1 Pa, 5 M, and 2 Sc 177 indet, bar, blade, and platform elements				
99PKA012C	Collected as upper Alapah? North Shublik Mountains 69 30 33-145 34 09	10 Pa elements <i>Cavusgnathus unicornis</i> Youngquist and Miller 26 Pa cavusgnathid fragments	Late Mississippian (Chesterian), Alapah Lms. or lower Wahoo	Open-platform, relatively shallow-water depositional environment.	5.5 to 6	6.1 kg of rock processed. 13 g of 20-140 mesn residue. Heavy-mineral concentrate: well-rounded dolomite, weathered pyrite and
	T. 2N, R.27E sec. 20, SW 1/4	1 Pa element (Juvenile) <i>Gnathodus girtyi simplex</i> Dunnn? UNASSIGNED ELEMENTS:	Lms.			phosphatized bioclasts. Elements have sucrosic texture and are well rounded
DODK AD43E	Collected as lower Wahoo?	6 Pa elements Cavusgnathus? tytthus Brown and	Late Mississippian or	Open-platform, relatively	4 and 6	5.8 kg of rock processed. 120 g of 20-140
	North Shublik Mountains	Rexroad	Early Pennsylvanian	shallow-water depositional		mesh residue. Heavy-mineral concentrate:
	69 30 45-145 32 54 T. 2N, R.27E sec. 20, SE 1/.4	22 Pa cavusgnathid tragments 1 Pa <i>Rhachistognathus muricatus</i> (Dunn)	Subzone, very latest	environment.		grains. Elements have sucrosic texture and
		UNASSIGNED ELEMENTS: 1 Pb, and 1 Sa	noduliferus primus			and 3 indet, grains.
		8 indet. bar, blade, and platform elements	Zone, very earliest Morrowan), lower			
			Wahoo or basal part of upper Wahoo Lms.			
99PKA013F	Collected as upper Wahoo? South Shublik Mountains	4 Pa cavusgnathid fragments 1 Pa element <i>Idiognathodus</i> sp. indet.	Pennsylvanian (Idiognathodus	Indeterminate (too few conodonts): probably normal	4 and 6	4.1 kg of rock processed. / g of 20-140 mesh residue. Heavy-mineral concentrate: Primarily
	69 28 49-145 34 16	1 Pa element (juvenile) Rhachistognathus sp.	Fauna, late	marine, shallow, high energy open-marine near shoal		Elements have sucrosic texture and are well
	1. 2N, D.27C 300, 02, 031 03	UNASSIGNED ELEMENTS: 8 indet has higher and platform elements	Atokan), upper Wahoo Lms	depositional environment		rounded.
		o ilidet. pai, piade, and piamenti eremente				

99PKA013G	Collected as upper Wahoo? South Shublik Mountains 69 28 51-145 31 44 T. 2N, R.27E sec. 33, SW 1/4	1 Pa element Declinognathodus noduliferus japonicas (Igo and Koike) 1 Pa element (Juvenile) Declinognathodus noduliferus noduliferus (Ellison and Graves) 3 Pa elements Idiognathodus incurvus Dunn? 1 Pa element Idiognathodus sinuosus Ellison and Graves 3 Pa elements Idiognathodus sop. indet.	Pennsylvanian (<i>Idiognathodus</i> Fauna, early Atokan), upper Wahoo Lms.	Open-marine depositional environment.	4 and 6	6.3 kg rock processed. 6 g of 20-140 mesh residue. Heavy-mineral concentrate: abundant large grains of weathered pyrite and minor dolomite. Elements have sucrosic texture and a few elements are complete.
		1 Pa element <i>Idiognatinodus sinuosus</i> Ellison and Graves 3 Pa elements <i>Idiognathodus</i> spp. indet. 1 Pa element <i>Rhachistognathus minutus</i> 6 <i>eclinatus</i> Baesemann and Lane 1 Pa element <i>Rhachistognathus muricatus</i> (Dunn) 1 Pa element <i>Rhachistognathus</i> sp. indet. UNASSIGNED ELEMENTS: 6 indet. bar, blade, and platform elements				
99PKA013I	Collected as lower Alapah?	20 Pa elements Cavusgnathus unicornis	Mississippian	Open-platform, relatively	ely	ely 4.5 and 6
	South Shublik Mountains 69 29 14-145 32 05	Youngquist and Miller 10 Pa cavusgnathid fragments	(Merimecian to Chesterian), Alapah	shallow-water depositional environment.	tional	itional
	T. 2N, R.27E sec. 32, NE 1/4	Kladognathus sp. indet.: 5 M and 1 Sb-Sc elements	Lms, or lower Wahoo Lms.			
		UNASSIGNED ELEMENTS: 1 Pb and 1 M				
		43 indet. bar, blade, and platform elements	Missississ	Indotorminato		17.
99PKA013K	Collected as upper Alapah? South Shublik Mountains	1 indet. bar fragment	Mississippian or Pennsylvanian based	Indeterminate		Indeterminate / 9 kg rock processed. 1 g of 20-140 mesin residue. Heavy-mineral concentrate:
	69 29 25-145 31 55		on same locality as			
	T. 2N, R.27E sec. 32, NE 1/4		above			

Krumhardt, A.P., Harris, A.G., and Watts, K.F., 1996, Lithostratigraphy, microlithofacies, and conodont biostratigraphy and biofacies of the Wahoo Limestone (Carboniferous), eastern Sadlerochit Mountains, northeast Brooks Range, Alaska: U.S. Geological Survey Professional Paper, 1568, 71 p.